RUPRI Center for Rural Health Policy Analysis Rural Policy Brief

Brief No. 2016- November 2016 http://www.public-health.uiowa.edu/rupri/

Changing Rural and Urban Enrollment in State Medicaid Programs

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Purpose

From October 2013—before implementation of the Affordable Care Act (ACA)—to November 2016, Medicaid enrollment grew by 27 percent. However, very little attention has been paid to date to how changes in Medicaid enrollment vary within states across the rural-urban continuum. This brief reports and analyzes changes in enrollment in metropolitan, micropolitan, and rural (noncore) areas in both expansion states (those that used ACA funding to expand Medicaid coverage) and nonexpansion states (those that did not use ACA funding to expand Medicaid coverage). The findings suggest that growth has been uneven across rural-urban geography, and that Medicaid enrollment growth is lower in rural counties, particularly in nonexpansion states.

Key Findings

- Medicaid growth rates in metropolitan counties in nonexpansion states from 2012 to 2015 were twice as large as in rural counties (14 percent compared to 7 percent).
- In contrast, the differential in growth rates between metropolitan, micropolitan, and rural counties was much less dramatic in expansion states (growth rates of 43 percent, 38 percent, and 38 percent, respectively).
- Analysis at the state level shows much variability across the states, even when controlling for expansion status. For example, some states with an above-average rural population, such as Tennessee and Idaho, had higher-than-average enrollment increases, with strong rural increases, while other states with similar proportions of rural residents, such as Nebraska, Oklahoma, Maine, and Wyoming, experienced enrollment decreases in micropolitan and/or rural counties.
- States' pre-ACA Medicaid eligibility levels for parents and children affected the potential for growth. For example, some states that had higher eligibility levels (e.g., Maryland and Illinois) experienced lower Medicaid growth rates from 2012 to 2015, in part because their baseline enrollment was higher.
- In the expansion states of Colorado and Nevada, which both have State-Based Marketplaces (SBMs), enrollment increases were over four times the overall average.

Background and Motivation

Since its passage in 1965, Medicaid has become the largest U.S. health insurance program, covering over 72 million Americans in January 2016.¹ Medicaid, which has historically covered low-income children, parents, pregnant women, and the elderly and disabled, provides its beneficiaries with acute and long-term health care coverage. The ACA included funding for states to expand the coverage of their Medicaid programs to include all individuals up to 138 percent of the Federal Poverty Level (FPL). However, in June 2012, the Supreme Court ruled mandatory Medicaid expansion unconstitutional, making Medicaid expansion optional to states.² Many states began to increase eligibility standards in accordance with the ACA, with a total of 25 states and the District of Columbia participating in the expansion at the start of 2014. Two additional states expanded Medicaid in 2014, and three more states expanded in 2015, bringing the total to 29. Currently, 31 states and the District of Columbia have adopted Medicaid expansion, while 19

states have not It is worth noting that this gradual pattern of adoption is similar to that of the original introduction of Medicaid: in 1967, 26 states adopted the program, with 11 more adopting within the first three years; however, the final state to adopt the Medicaid program did not do so until 1982.³



Funded by the Federal Office of Rural Health Policy www.ruralhealthresearch.org

This project was supported by the Federal Office of Rural Health Policy (FORHP), Health Resources and Services Administration (HRSA), U.S. Department of Health and Human Services (HHS) under grant # U1C RH20419. The information, conclusions and opinions expressed in this policy brief are those of the authors and no endorsement by FORHP, HRSA, HHS, or University of Iowa is intended or should be inferred.



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The uneven patterns of Medicaid expansion at the state level are likely creating or exacerbating geographic coverage disparities. In particular, there is concern about the disproportionately rural character of the states that have not expanded Medicaid:

- Of the 15 states with the highest percentage of the population living in rural areas, only 9 (60 percent) have expanded Medicaid.⁴
- In contrast, of the 15 states with the highest percentage of the population living in urban areas, 13 (87 percent) have expanded Medicaid.

In addition, within a state, existing disparities between rural and urban areas may narrow or widen due to expansion. Individuals in rural areas on average have lower incomes than individuals in urban areas.⁵ The rural population is also less likely to be covered by employer-sponsored health insurance.⁵ For these reasons, before the ACA was passed, rural populations, particularly children, were more likely to be covered by public insurance.^{5,6} Currently, in nonexpansion states, many uninsured have been left in a coverage gap, living above Medicaid eligibility levels but below the level at which subsidized Health Insurance Marketplace (HIM) coverage is available. It was initially estimated that in rural areas, 15 percent of the uninsured would be left in a coverage gap, compared to only 9 percent in urban areas.⁵

It might be expected that rural populations would benefit disproportionately from the ACA. However, because of significant differences in sociodemographics, political and social attitudes, and perhaps in information and outreach regarding HIMs in rural and urban areas, it is also plausible that enrollment changes in rural areas after the ACA may not match those in metropolitan areas. Many individuals who were eligible for (but unenrolled in) Medicaid before passage of the ACA discovered their or their children's eligibility while inquiring about the ACA's HIM plans, and even in non-expansion states, enrollment has increased due to this "woodwork effect." This suggests the potential for uneven woodwork effects depending on people's interest in HIM coverage and is the subject of this analysis.

Data and Methods

County-level enrollment data were obtained either online or by request from the individual states' Medicaid offices, allowing analysis of changes in Medicaid enrollment by metropolitan status post-ACA. Using those sources we were able to obtain Medicaid enrollment totals by county for 36 states—19 Medicaid expansion states and 17 nonexpansion states—for December 2012, which was immediately prior to expansion even by states that chose early adoption, and December 2015.8 These data were available in a majority of the states studied; however, in several states, only monthly fiscal year averages, total enrollment counts for the whole year, or data from other months were available.9 State-level percent change in Medicaid enrollment between 2012 and 2015 was calculated as an average of the percentage change by county in each state in both years. We repeated these calculations by Medicaid expansion and rural status (rural, micropolitan, and metropolitan) and report county-level averages.¹⁰

Results

Descriptive analyses showed substantial differences in Medicaid enrollment growth based on expansion and rural status (Figure 1). Prior to the ACA, annual growth was 1.1% in expansion states and 0.5% in

nonexpansion states. 11 On average, growth rates in expansion states were almost 4 times greater than in nonexpansion states (40 percent as compared to 10 percent). In general, rural areas experienced lower enrollment growth than micropolitan areas, which in turn had lower enrollment than metropolitan areas, an effect present in both expansion and nonexpansion states. However, the difference in enrollment between micropolitan and rural areas in expansion states was not substantial. The difference in enrollment growth patterns across geography between expansion and nonexpansion states is perhaps a surprising finding, and should be analyzed further. Table 1 shows similarly dramatic state-by-state differences within each expansion category. For example, some highly rural nonexpansion states—in particular Maine, Nebraska, Oklahoma, and Wyoming—experienced Medicaid enrollment decreases in rural and/or micropolitan regions in the 2012-15 period.

Figure 1. Average County-Level Medicaid Enrollment Growth, 2012-15

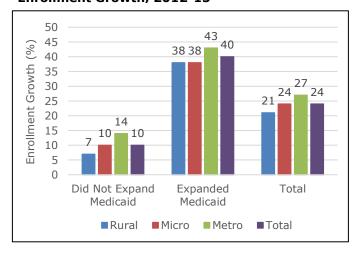


Table 1. Average Percent Change in Medicaid Enrollment by State (2012-15) and Other Statistics

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|--|------------|---------|---------|---------|---------|---------------------|----------------|
| | % of | | | | | | % of Potential |
| | Population | | | | | Pre-ACA Eligibility | Population |
| State | that is | Total % | Metro % | Micro % | Rural % | Cutoffs (%FPL) | Enrolled in |
| (SBM) | Rural | Change | Change | Change | Change | (Parents/Children) | HIMs |
| Expansion States as of December 2015 | | | | | | | |
| VT | 66% | 34% | 34% | 33% | 33% | 191%/300% | 46% |
| MT** | 65% | 43% | 39% | 30% | 45% | 54%/250% | 48% |
| ND | 51% | 34% | 27% | 34% | 35% | 57%/160% | 26% |
| IA | 43% | 26% | 31% | 25% | 24% | 80%/300% | 20% |
| KY | 42% | 60% | 69% | 59% | 55% | 57%/200% | 30% |
| AR | 40% | 9% | 10% | 8% | 9% | 16%/200% | 24% |
| wv | 39% | 63% | 67% | 62% | 61% | 31%/300% | 33% |
| NH | 38% | 43% | 42% | 42% | 52% | 47%/300% | 50% |
| AK | 33% | 20% | 14% | 20% | 21% | 78%/175% | 35% |
| MN | 23% | 38% | 44% | 43% | 32% | 215%/275% | 22% |
| ОН | 21% | 28% | 33% | 24% | 22% | 96%/200% | 30% |
| MI | 18% | 20% | 21% | 20% | 19% | 64%/200% | 43% |
| OR | 17% | 67% | 66% | 67% | 70% | 39%/300% | 46% |
| CO | 14% | 101% | 110% | 123% | 90% | 106%/250% | 22% |
| IL | 12% | 16% | 16% | 17% | 15% | 139%/300% | 40% |
| PA | 12% | 26% | 28% | 22% | 23% | 58%/300% | 46% |
| NV | 10% | 97% | 109% | 97% | 89% | 84%/200% | 36% |
| WA | 10% | 54% | 48% | 54% | 67% | 71%/300% | 27% |
| NY | 7% | 27% | 31% | 21% | 25% | 150%/400% | 22% |
| AZ | 5% | 36% | 37% | 33% | 38% | 106%/175% | 34% |
| MD | 3% | 19% | 19% | 16% | 15% | 122%/300% | 34% |
| CA | 2% | 77% | 77% | 75% | 78% | 106%/250% | 47% |
| Total | 13% | 40% | 43% | 38% | 38% | | 37% |
| Nonexpansion States as of December 2015 | | | | | | | |
| WY | 70% | -6% | 0% | 3% | -12% | 50%/200% | 35% |
| MS | 55% | 11% | 15% | 11% | 11% | 29%/200% | 26% |
| SD | 54% | 2% | 9% | 1% | 2% | 50%/200% | 24% |
| ME | 42% | -15% | -15% | -20% | -15% | 133%/200% | 58% |
| NE | 37% | -1% | -2% | 1% | -2% | 58%/200% | 36% |
| ок | 36% | -1% | 0% | -1% | -3% | 51%/185% | 31% |
| ID | 35% | 27% | 24% | 27% | 28% | 37%/185% | 51% |
| KS | 34% | 9% | 12% | 8% | 9% | 31%/232% | 31% |
| МО | 26% | 11% | 13% | 11% | 9% | 35%/300% | 43% |
| AL | 25% | 11% | 13% | 9% | 9% | 23%/300% | 33% |
| NC | 23% | 19% | 23% | 17% | 16% | 47%/200% | 54% |
| TN | 23% | 21% | 23% | 21% | 18% | 122%/250% | 37% |
| GA | 18% | 4% | 8% | 3% | 1% | 48%/235% | 41% |
| LA | 17% | 19% | 20% | 19% | 17% | 24%/250% | 38% |
| SC | 17% | 13% | 16% | 10% | 7% | 89%/200% | 44% |
| TX | 12% | 12% | 13% | 9% | 11% | 25%/200% | 35% |
| UT | 11% | 7% | 8% | 12% | 4% | 42%/200% | 45% |
| FL | 4% | 17% | 20% | 16% | 10% | 56%/200% | 58% |
| Total | 19% | 10% | 14% | 10% | 7% | | 43% |

*Percent population rural obtained from the U.S. Census Bureau, https://www.census.gov/geo/reference/ua/urban-rural-2010.html; percent of potential population enrolled in HIMs obtained from the Kaiser Family Foundation, http://kff.org/health-reform/state-indicator/marketplace-enrollment-as-a-share-of-the-potential-marketplace-population-2015/; Pre-ACA eligibility cutoffs obtained from the Kaiser Family Foundation, https://kaiserfamilyfoundation.files.wordpress.com/2013/04/7993-03.pdf.

On the other hand, Tennessee and Idaho, both also nonexpansion states, experienced Medicaid enrollment increases that were higher than those in some expansion states. In the expansion states of Colorado and Nevada, which both have SBMs, enrollment increases were nearly four times the overall average. Clearly, while rural differences exist at the aggregate level, there is much state-by-state variation in Medicaid enrollment growth that needs further study. Some of these differences, particularly in nonexpansion states, may be related to the relative success rates in the HIMs, which are reported as the percent of the potential HIM market enrolled in each state. For example, in the nonexpansion states of Idaho, North Carolina, Tennessee, and Florida, where HIMs were most successful, Medicaid growth was also relatively high.¹²

^{**}Montana began enrolling people in its Medicaid expansion in November of 2015 for benefits beginning January 1, 2016.

Enrollment growth may also have been impacted by a state's prior Medicaid eligibility levels for parents and children. Some states had already implemented their own Medicaid expansion prior to the ACA. In addition, most states already had higher Medicaid eligibility levels for children that matched the ACA expansion, due to the Children's Health Insurance Program (CHIP), so in general children were less likely to fall into "gaps" if the state had not expanded Medicaid. Therefore, states that had a high pre-ACA coverage baseline often experienced lower Medicaid enrollment growth rates between 2012 and 2015. For example, states such as Illinois and Maryland, which had higher eligibility levels prior to 2014, experienced lower enrollment growth rates (16 percent and 19 percent, respectively), while states such as Oregon and Kentucky, which had lower eligibility levels prior to the ACA, experienced above-average Medicaid growth rates (67 percent and 60 percent, respectively). Medicaid enrollment growth rates across metropolitan, micropolitan, and rural counties were also highest in states with SBMs. This is even true in Idaho, which did not expand Medicaid. However, there is no uniform story: state-level variation across all these measures is clearly evident.

Discussion

Medicaid enrollment has increased rapidly in both expansion and nonexpansion states since the passage of the ACA. Gains were larger in expansion states and in metropolitan areas, with the geographic differential more pronounced in nonexpansion states and in states without SBMs. While this study is descriptive, and thus the causal reasons behind these changes are not established, some areas in particular need further exploration. Potential reasons for low enrollment in rural populations in non-expansion states include limited outreach or lesser presence of ACA navigators in rural areas, less interest in or knowledge about seeking out ACA coverage on the part of parents (since many children have been newly enrolled in Medicaid/CHIP as their parents go through this process), backlogs in processing of Medicaid applications, and bureaucratic roadblocks created by states to control costs and reduce the woodwork effect.13 Enrollment differences could also be a result of variations in HIM outreach efforts that have had spillover effects, an idea supported by the high enrollment changes in some SBMs (California, Colorado, Kentucky, Idaho, Oregon, and Washington). Similar enrollment differences by rural status exist in HIMs, 14,15,16 which suggests the possibility that enrollment differences are affected by broader political and social factors. Nonexpansion also implies that the state is budget-conscious and may not be interested in Medicaid outreach. Variations in outreach efforts between rural and urban areas within nonexpansion states may be due to the fact that most outreach in nonexpansion states is funded privately and charitably, and such groups are less likely to have the means to implement efforts costeffectively in rural areas where the population is less concentrated. Socioeconomic differences between urban and rural areas (e.g., income, poverty) may also play a role. However, state-level variation exists even among states that are predominately rural, suggesting that at the policy level, best practices gleaned from states with higher enrollment rates could be implemented in states with lower enrollment rates.

Notes

- ¹ Centers for Medicare & Medicaid Services. *Medicaid & CHIP: January 2016 Monthly Applications, Eligibility Determinations and Enrollment Report.* Baltimore, MD; April 2016, https://www.medicaid.gov/medicaid-chip-program-information/program-information/downloads/january-2016-enrollment-report.pdf
- ² Henry J. Kaiser Family Foundation. Focus on Health Reform: A Guide to the Supreme Court's Decision on the ACA's Medicaid Expansion (Publication #8347). Menlo Park, CA: Henry J. Kaiser Family Foundation; August 2012. https://kaiserfamilyfoundation.files.wordpress.com/2013/01/8347.pdf
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- ⁴ U.S. Census Bureau. 2010 Census Urban and Rural Classification and Urban Area Criteria. https://www.census.gov/geo/reference/ua/urban-rural-2010.html
- ⁵ Approximately one-quarter of the nonelderly rural population has a family income below the Federal Poverty Level, compared to about one-fifth of the nonelderly population in urban areas. Newkirk VR, Damico A. *The Affordable Care Act and Insurance Coverage in Rural Areas* (Issue Brief). Menlo Park, CA: Henry J. Kaiser Family Foundation; May 2014. http://kff.org/uninsured/issue-brief/the-affordable-care-act-and-insurance-coverage-in-rural-areas/
- ⁶ Bailey J. Medicaid and Rural America. Lyons, NE: Center for Rural Affairs; No. 15, February 2012. http://files.cfra.org/pdf/Medicaid.pdf
- ⁷ Gates A, Rudowitz R, Artiga S, Snyder L. *Two Year Trends in Medicaid and CHIP Enrollment Data: Findings from the CMS Performance Indicator Report* (Issue Brief) (see figure 6, Child Enrollment as a Share of Total Medicaid and CHIP Enrollment by State). Menlo Park, CA: Henry J. Kaiser Family Foundation; June 2016. http://kff.org/report-section/two-year-trends-in-medicaid-and-chip-enrollment-data-key-findings/
- 8 States with no rural (nonmicropolitan) counties (CT, DC, DE, NJ) were excluded from analyses.
- ⁹ To control for seasonality of enrollment, we used December data whenever possible. For SD, calendar year averages were used. In OK and ND, unduplicated fiscal year totals were used. In AR and SC, fiscal year totals were used. In CA, monthly averages for the final quarter (Oct.-Dec.) were used for 2012. In WY, June was the latest month available in 2012. In PA, Sept. enrollment totals were used in both 2012 and 2015. In AL, June was the latest month available in 2015. In AZ and CO, Oct. was the latest month available in 2015.
- ¹⁰ Rural status was designated using the USDA Economic Research Service's 2013 Urban Influence Codes.
- 11 RUPRI calculations based upon available data. A difference-in-difference analysis of these results is forthcoming.
- Because the uninsured between 100 and 138 percent of FPL are part of the potential market only in nonexpansion states, and these individuals are eligible for the highest subsidies and most generous cost-sharing, overall HIM enrollment rates are higher in these states. Depending on the distribution of incomes in Medicaid expansion states, eligibility for the most affordable coverage will differ considerably, and this may be why the relationship is not obvious.
- ¹³ Galewitz P. Feds Demand Medicaid Backlog Fixes by Six States. Washington, DC: Kaiser Health News; July 10, 2014. http://khn.org/news/feds-demand-medicaid-backlog-fixes-by-six-states/
- Barker AR, McBride TD, Kemper LM, Mueller KJ. Rural Enrollment in Health Insurance Marketplaces, by State (Brief No. 2015-11). Iowa City, IA: RUPRI Center for Rural Health Policy Analysis; October 2015. http://www.public-health.uiowa.edu/rupri/publications/policybriefs/2015/Rural%20Enrollment%20in%20HIM.pdf
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